# **BookletChart**

# Catahoula Bay to Wax Lake Outlet

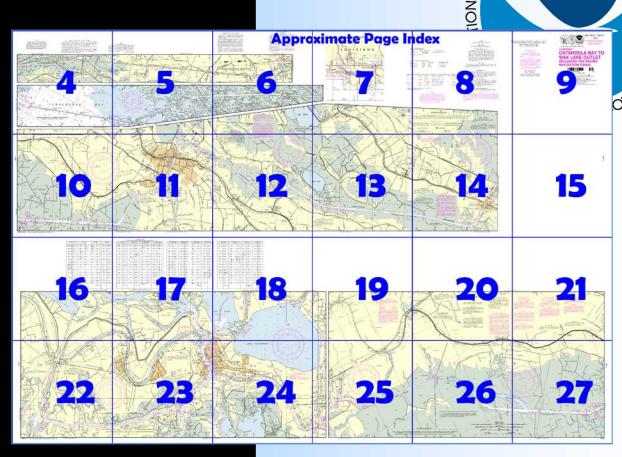
(NOAA Chart 11355)

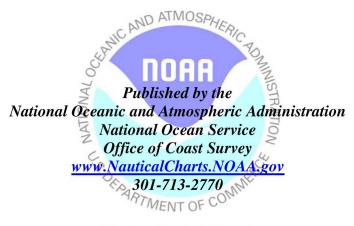


A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ☑ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ✓ Convenient size
- ☑ Up to date with all Notices to Mariners
- ☑ United States Coast Pilot excerpts
- Compiled by NOAA, the nation's chartmaker.

  AND ATMOSPHERIC





#### **What are Nautical Charts?**

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

#### What is a BookletChart $\stackrel{\text{\tiny TM}}{=}$ ?

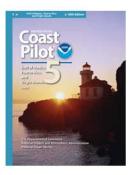
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <a href="http://www.NauticalCharts.NOAA.gov">http://www.NauticalCharts.NOAA.gov</a>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

#### **Notice to Mariners Correction Status**

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 5, Chapter 9 excerpts] (106) Timbalier Bay and Terrebonne Bay are large shoal-water bays separated from the Gulf by a chain of low sand islands.

(125) **Houma Navigation Canal** extends in a NW direction from Cat Island Pass for about 8 miles across Terrebonne Bay, thence in a landcut in a N direction for about 23 miles to an intersection with the Intracoastal Waterway about 1 mile below Houma. (130) **Houma**, the parish seat of Terrebonne Parish, is at the head of the Navigation Canal,

about 32 miles above the entrance. The principal industries are seafood, petroleum, natural gas, sulphur, and sugar and molasses. The area is important in agriculture and cattle raising.

(193) **Deer Island,** on the E side of the Lower Atchafalaya River entrance, can be approached through a short dredged channel just SW of

the island. The entrance is marked by a daybeacon. The channel has a reported depth of 4 feet.

(194) Fog is most frequent during January, February, and March. S winds bring it in, and N winds clear it away.

(197) Lower Atchafalaya River flows S into the NE corner of Atchafalaya Bay; it is the outlet for an extensive system of S Louisiana lakes and bayous known as the Atchafalaya navigation system, an inside passage to the Mississippi River about 180 miles above New Orleans. (198) The Lower Atchafalaya River leads N from Atchafalaya Bay through Berwick Bay, thence W through Berwick Lock, and joins Bayou Teche 8 miles above the Berwick Lock near Patterson.

(203) **Bayou Chene** extends from Avoca Island Cutoff to join and become part of the Intracoastal Waterway. In May 2002, the controlling depth was 9 feet (11 feet at midchannel) from the cutoff to the Intracoastal Waterway.

(204) Little Wax Bayou, which branches W from the Lower Atchafalaya about 13.5 miles above the mouth, is part of the Intracoastal Waterway. (205) Bayou Boeuf, also part of the Intracoastal Waterway and described in chapter 12, joins the Lower Atchafalaya from E at Morgan City. The Intracoastal Waterway follows Lower Atchafalaya S for 2.5 miles to Little Wax Bayou.

(206) An alternate route of the Intracoastal Waterway, from Morgan City N to Port Allen on the Mississippi River and Bayou Grosse Tete, is described in chapter 12.

(207) **Berwick Bay** is the section of the Lower Atchafalaya from Bayou Boeuf N to Sixmile Lake. Morgan City is on the E side of the bay and Berwick on the W side.

(208) Three bridges across Berwick Bay link Morgan City and Berwick. (214) **Port of Morgan City** is at the confluence of Atchafalaya River and the Intracoastal Waterway about 35 miles from deep water in the Gulf of Mexico. The port limits include the E quarter of the Parish of St. Marys from 91°17.4′W. to Bayous Boeuf and Chene, and from Sixmile Lake to the mouth of Atchafalaya River. Numerous inland waterways that radiate from the port make it a center for offshore oil exploration and development.

(215) **Morgan City,** on the E side of Berwick Bay, has several landings with ample depths for river boats; vessels generally go alongside, because of the depths and currents in the river. The principal industries are fishing, ship building, cement, petroleum, carbon black, chemicals, sulfur, salt, menhaden, and some agriculture in the raising of rice and sugar. The city has ice and cold storage plants. Tugs up to 4,500 hp operate from Morgan City.

(216) The Young Memorial Vocational Training Center, a school for navigation, seamanship, and marine and electrical engineering, is located in Morgan City.

(224) **Berwick**, opposite Morgan City on the W side of Berwick Bay, has several seafood, fertilizer, and chemical plants, a shipyard, and several oil company bases. The shipyard has several floating drydocks, the largest of which can handle vessels to 2,000 tons, 200 feet long, 79-foot beam, and 16-foot draft for general repairs; a 25-ton crane is available. Gasoline, diesel fuel, water, ice, and marine supplies are available.

(226) **Bayou Teche** is a navigable waterway in S Louisiana parallel to and 35 miles W of the Mississippi River, meandering NW for about 93 miles from its junction with Lower Atchafalaya River, about 8 miles W of **Berwick Lock**, to its sources in St. Landrys Parish.

(230) The St. Mary Parish highway bridge about 7 miles above Berwick Lock at **Patterson** has a swing span with a clearance of 6 feet.

## CAUTION Hydrography from the surveys of 1934

#### HEIGHTS

Heights in feet above Mean High Water.

#### INTRACOASTAL WATERWAY AIDS

The U.S. Aids to Navigation System is designed for use with nautical charts and the exact meaning of an aid to navigation may not be clear unless the appropriate chart is con-

suired.

Aids to navigation marking the Intracoastal Waterway exhibit unique yellow symbols to distinguish them from aids marking other

waterways. When following the Intracoastal Waterway westward from Carrabelle. Florida to Brownsville. Texas, aids with yellow friangles should be kept on the starboard side of the vessel and aids with yellow squares should be kept on the port side of the vessel. A horizontal yellow band provides no lateral information, but simply identifies aids to navigation as marking the Intracoastal Waterway.

## CAUTION BASCULE BRIDGE CLEARANCES For bascule bridges, whose spans do not open

to a full upright or vertical position, unlimited vertical clearance is not available for the entire charted horizontal clearance.

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

# INTRACOASTAL WATERWAY

Project Depths
12 feet Carrabelle, FL to Brownsville, TX The controlling depths are published period-cally in the U.S. Coast Guard Local Notice to

The Waterway is indicated by a magenta line. Mileage distances shown along the Waterway are in Statute Miles, based on zero at Harvey Lock, LA, and are indicated thus:

Tables for converting Statute Miles to International Nautical Miles are given in U.S. Coast Pillot F.

#### RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

#### CAUTION

Small craft operators are warned to beware of severe water turbulence caused by large vessels traversing narrow waterways.

#### WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

#### RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

#### CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

AIDS TO NAVIGATION Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

#### WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

## CAUTION

Strong currents from Wax Lake Outlet are reported to set vessels in the waterway to the south.

#### INTRACOASTAL WATERWAY AIDS

The U.S. Aids to Navigation System is esigned for use with nautical charts and the kact meaning of an aid to navigation may not e clear unless the appropriate chart is con-

navigation marking the Intracoastal exhibit unique yellow symbols to them from aids marking other

Small craft should stay clear of large com-mercial and government vessels even if small craft have the right-of-way.

All craft should avoid areas where the skin divers flag, a red square with a diagonal white stripe, is displayed.

CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

#### NOTE

## Calumet Floodgates

The operation of the East and West Calumet Floodgates is discontinued. During flood season the East gate is closed, and the West gate is opened upon request. Both gates are open the remainder of the year.

CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine pipeline and cable areas

## CALITION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

#### CAUTION

Small craft should stay clear of large com-mercial and government vessels even if small craft have the right-of-way.

#### CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

#### PLANE COORDINATE GRID (based on NAD 1927)

The Louisiana State Grid south zone is indictated by dashed ticks at 10,000 foot intervals. The last three digits are omitted.

#### BOUTE ARREVIATIONS

(IW) Intracoastal Waterway, Carrabelle, FL to Brownsville, TX.
(AR) Atchafalaya River route.
(MP) Morgan City to Port Allen, alternate route.
(LR) Morgan City to Port Allen, landside route.

#### NOTE S

NOI E S
Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.

#### ABBREVIATIONS

For Symbols and Abbreviations see Chart No. 1

#### PLANE COORDINATE GRID (based on NAD 1927)

The Louisiana State Grid south zone is indicated on this chart by dashed ticks at 10,000 foot intervals. The last three digits are omitted.

All craft should avoid areas where the skin divers flag, a red square with a diagonal white stripe, is displayed.

#### CAUTION

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:

Claccurate location | CApproximate location|

**Table of Selected Chart Notes** 

(Accurate location) o(Approximate location)

Corrected through NM Mar. 22/08, LNM Mar. 11/08

Corrected through NM Mar. 22/08, LNM Mar. 11/08

#### AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

Corrected through NM Mar. 22/08, LNM Mar. 11/08

#### PRINT-ON-DEMAND CHARTS

PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart
updated weekly by NOAA for Notices to Mariners and
critical corrections. Charts are printed when ordered
using Print-on-Demand technology. New Editions are
available 5-8 weeks before their release as traditional
NOAA charts. Ask your chart agent about Print-on-Demand
charts or contact NOAA at 1.800-584-4683,
http://NauticalCharts.gov, help@NauticalCharts.gov, or
CoeanGrafix at 1-877-56CHART, http://OceanGrafix.com,
or help@OceanGrafix.com.

# CAUTION

WARNING CONCERNING LARGE VESSELS WARNING CONCERNING LARGE VESSELS

The 'Rules of the Road' state that recreational boats shall not impede the passage of a vessel that can navigate only within a narrow channel or fairway. Large vessels may appear to move slowly due to their large size but actually transit at speeds in excess of 12 knots, requiring a great distance inwhich to maneuver or stop. A large vessel's superstructure may block the wind with the result that saliboards and saliboards may unexpectedly find themselves unable to maneuver. Bow and stern waves can be hazardous to small vessels. Large vessels may not be able to see small craft close to their bows.

#### POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

#### HURRICANES AND TROPICAL STORMS

Hurricanes, tropical storms and other major storms may cause considerable damage to marine structures, aids to navigation and moored vessels, resulting in submerged debris in unknown locations.

in unknown locations.

Charted soundings, channel depths and shoreline may not reflect actual conditions following these storms. Fixed aids to navigation may have been damaged or destroyed. Buoys may have been moved from their charted positions, damaged, sunk, chitiguished or otherwise made inoperative. Mariners should not rely upon the position or operation of an aid to navigation. Weeks and submarrend obstructions may have been displaced. Wrecks and submerged obstructions may have been displaced from charted locations. Pipelines may have become uncovered

Mariners are urged to exercise extreme caution and are requested to report aids to navigation discrepancies and hazards to navigation to the nearest United States Coast Guard

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 5. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander. Bit Coast Guard District in New Orleans, LA, or at the Office of the District Engineer, Corps of Engineers in New Orleans,

Refer to charted regulation section numbers.

#### RULES OF THE ROAD (ABRIDGED)

Motoriess craft have the right-of-way in almost all cases. Sailing vessels and motorboats less than sixty-five feet in length shall not hamper, in a narrow channel, the safe passage of a vessel which can navigate only inside that channel.

A motorboat being overtaken has the right-of-way.

Motorboats approaching head to head or nearly so should pass port to port. When motorboats approach each other at right angles or obliquely, the boat on the right has the right-of-way in most

Cases.

Motorboats must keep to the right in narrow channels when safe and practicable.

Mariners are urged to become familiar with the complete text of the Rules of the Road in U.S. Coast Guard publication

\*\*Theorems of the Text of the Text of the Rules of the Road in U.S. Coast Guard publication

\*\*Theorems of the Text of the "Navigation Rules."

Additional information can be obtained at nauticalcharts.noaa.gov

#### SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 5 for important supplemental information.

#### **AUTHORITIES**

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

#### HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83) which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.782" northward and 0.342" westward to agree with this chart.

#### TIDAL INFORMATION

Predicted times for high and low tides at Wine Island in Terrebonne Bay (29°05' -90°37') may be obtained by subtracting 36 minutes for high water and adding 13 minutes for low water to the times listed for Pensacola, Florida in the tide table. (See inside cover). In the Intracoastal Waterway between Catahoula Bay and Wax Lake Outlet the periodic tide is negligible.

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#### PUBLIC BOATING INSTRUCTION PROGRAMS

The United States Power Squadrons (USPS) and U.S. Coast Guard Auxiliary (USCGAUX), national organizations of boatmen, conduct extensive boating inserticin programs in communities throughout the United States. For information regarding these educational courses, contact the following sources:

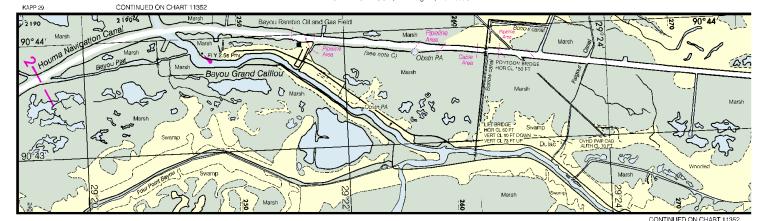
USPS - Local Squadron Commander or USPS Headquarters, 1504 Blue Ridge

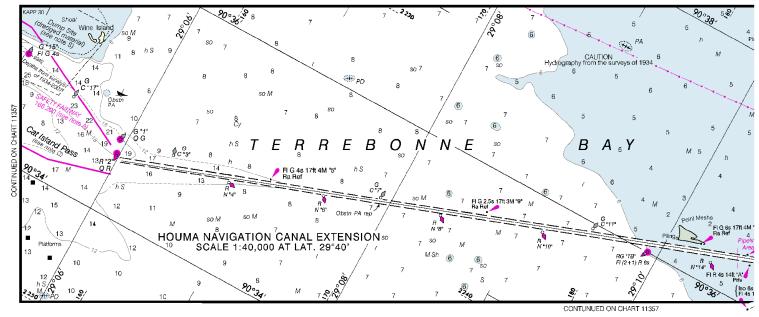
USPS - Local Squaron Commination of Jor's Recordularies, 1904 Bide Hage Road, Raleigh, NC 27607, 888-367-8777

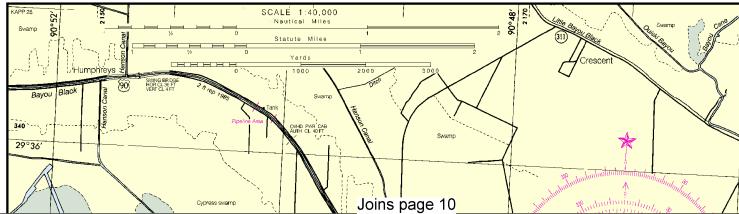
USCGAUX - COMMANDER (OAX), Eighth Coast Guard District, Hate Boggs Federal Building, Suite 1126, 500 Poydras Street, New Orleans, LA 70130, 800-524-8835 or USCG Headquarters, Office of the Chief Director (G-OCX), 2100 Second Street, SW, Washington, DC 20593

HOUMA NAV

The controlling depth w thence 10 feet from the er in Terrebonne Bay (29°06'-Caillou; thence 15 feet to E feet to Bayou Pelton: then the Intracoastal Waterway









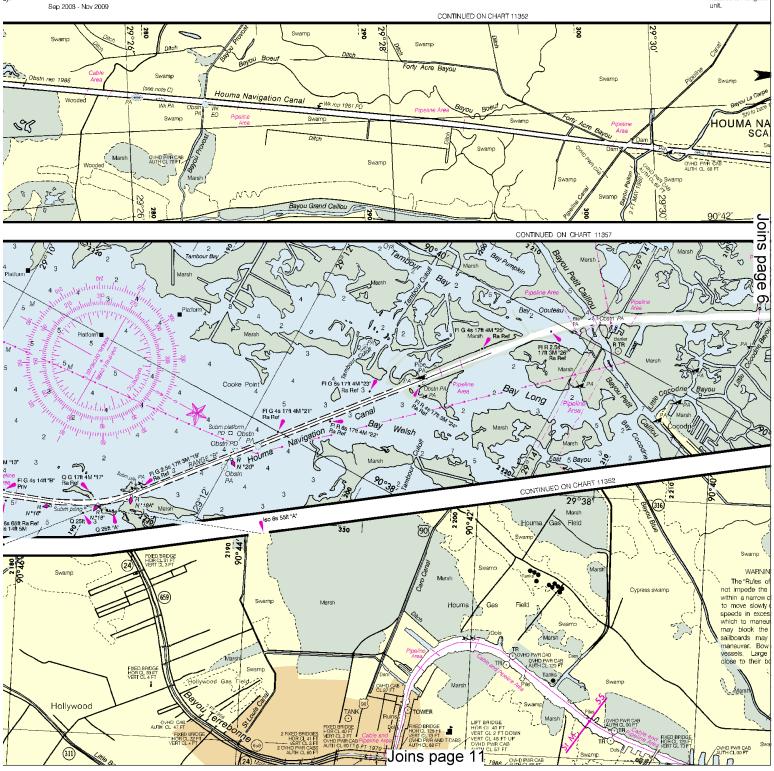
Hurricanes, tropic cause considerable navigation and moor in unknown locations

Charted sounding reflect actual conditionavigation may have have been moved fro extinguished or othe not rely upon the po-Wrecks and submerc from charted locatio

or moved.

Mariners are urge requested to report hazards to navigation unit.

NOTE C IAVIGATION CANAL was 6 feet through Cat Island Pass; entrance of the improved channel i6'00"N, 90°34'30"W), to Bayou Petit b Bayou Grand Caillou; thence 10 ence 10 feet to the junction with



This BookletChart was reduced to 75% of the original chart scale. The new scale is 1:53333. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.



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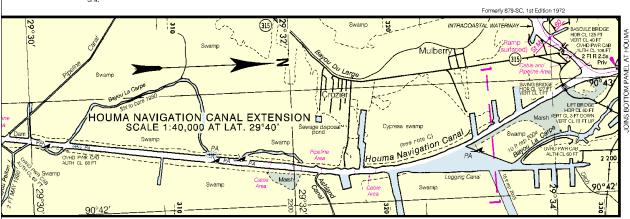
When motorboats approach each other at right angles or

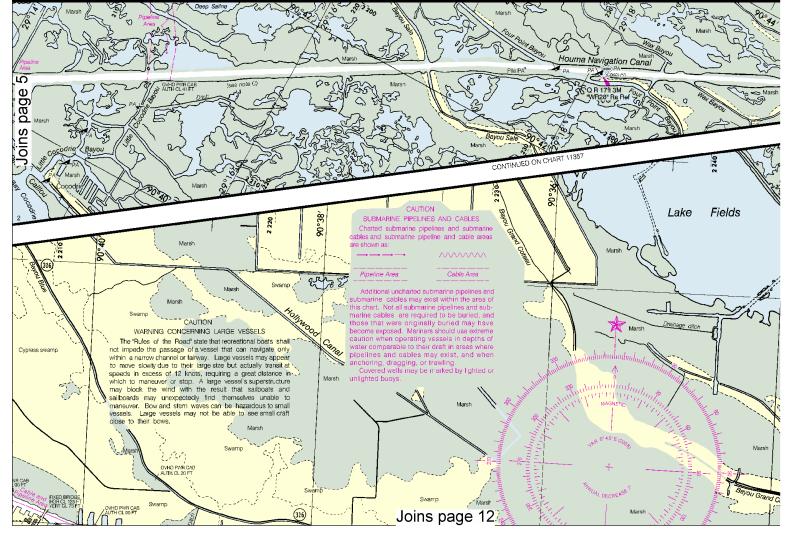
obliquely, the boat on the right has the right-of-way in most cases.

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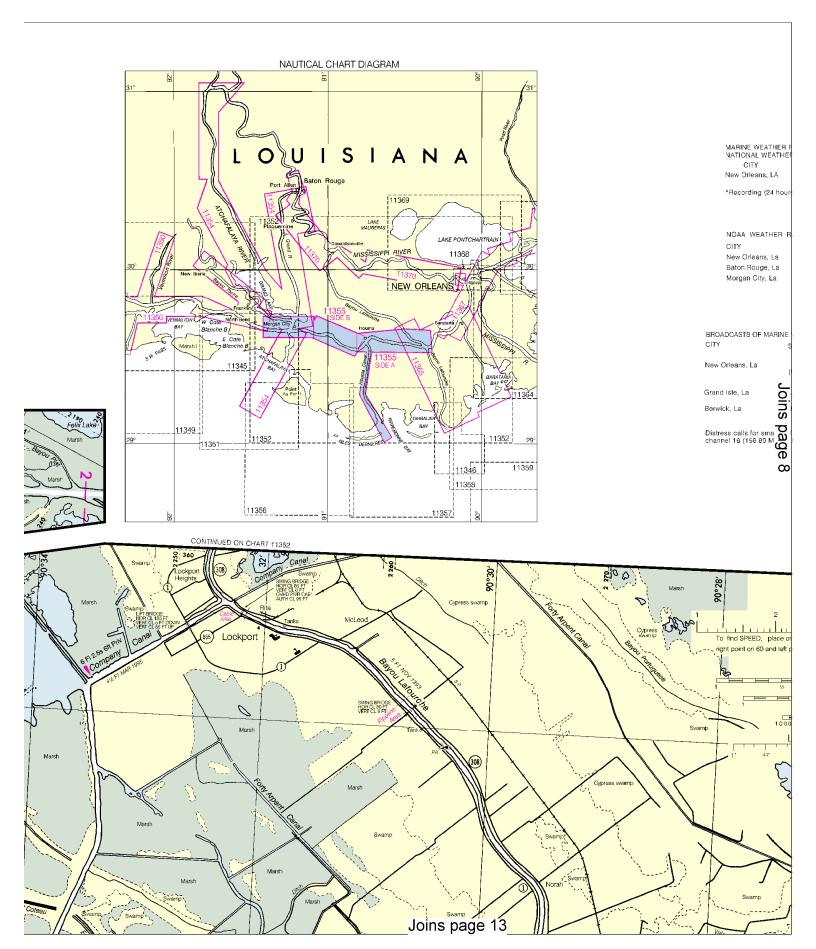
safe and practicable.

Mariners are urged to become familiar with the complete text of the Rules of the Road in U.S. Coast Guard publication "Navigation Rules."













#### HEIGHTS

Heights in feet above Mean High Water.

#### ABBREVIATIONS

For Symbols and Abbreviations see Chart No. 1

#### PRINT-ON-DEMAND CHARTS

NOAA and its partner, OceanGrafix, offer this chart updated weekly by NOAA for Notices to Mariners and critical corrections. Charts are printed when ordered using Print-on-Demand technology. New Ecitions are available 5-8 weeks before their release as traditional NOAA observables are the NOAA observables. NOAA charts. Ask your chart agent about Print-on-Demand charts or contact NOAA a: 1-800-584-4683, http://NauticalCharts.gov, or OceanGrafix at 1-877-56CHART, http:///oceanGrafix.com, or help@OceanGrafix.com.

#### AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

#### HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83) which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.782" northward and 0.342" westward to agree with this chart.

#### TIDAL INFORMATION

Predicted times for high and low tides at Wine Island in Terrebonne Bay (29°05' -90°37') may be obtained by subtracting 36 minutes for high water and adding 13 minutes for low water to the times listed for Pensacola, Florida in the tide table. (See inside cover).

In the Intracoastal Waterway between Catahoula Bay and Wax Lake Outlet the periodic tide is negligible.

#### SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 5 for important supplemental information.

#### CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at

MARINE WEATHER FORECASTS NATIONAL WEATHER SERVICE

CITY TELEPHONE NUMBERS OFFICE HOURS (504) 522-7330 \*(504) 465-9215 New Orleans, LA 8:00 AM-4:00 PM (Mon.-Fri.)

\*Recording (24 hours daily)

#### NOAA WEATHER RADIO BROADCASTS

CITY	STATION	FREQ. (MHz)	BROADCAST TIMES
New Orleans, La	KHB-43	162.55	24 hours daily
Baton Rouge, La	KHB-46	162.40	24 hours daily
Morgan City, La	KIH-23	162.475	24 hours daily

BROADCASTS OF MARINE WEATHER FORECASTS AND WARNINGS BY MARINE RADIOTELEPHONE STATIONS

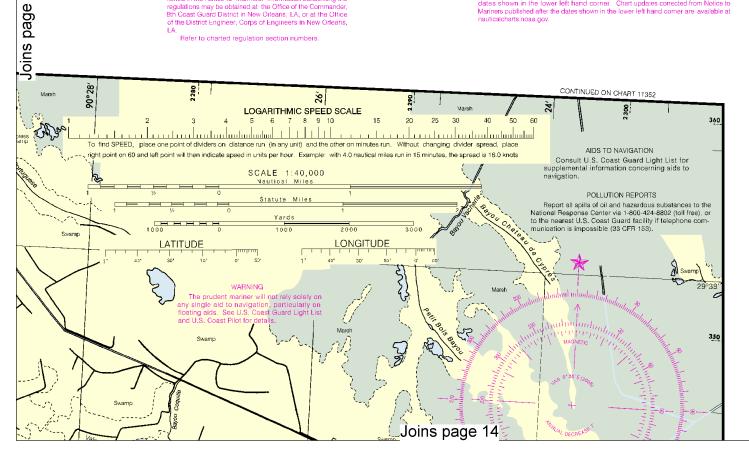
CITY	STATION	FREQ.	BROADCAST TIMES CST	SPECIAL WARNING
New Orleans, La	NMG (USCG)	2670 kHz	4:35, 6:35 10:35 & 11:50 AM 4:35 & 11:50 PM	On receipt
Grand Isle, La	NMG-15	157.1 MHz 157.1 MHz	4:50 & 10:50 AM 4:50 PM 4:35, 10:35 AM 4:35 PM	On receipt On receipt
Berwick, La	NMG-17	157.1 MHz	4:00 & 10:00 AM 4:00 PM	On receipt

Distress calls for small craft are made on 2182 kHz or channel 16 (156.80 MHz) VHF.

#### NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Piot 5. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 8th Coast Guard District in New Orleans, LA, or at the Office of the District Engineer, Corps of Engineers in New Orleans

Refer to charted regulation section numbers



CALE 1:40,000 Nautica<u>l Miles</u> Printed at reduced scale. See Note on page 5. Yards 1000 0 1000 2000 3000 4000 5000

#### MERCATOR PROJECTION, SCALE 1:40,000 AT LAT. 29° 40' SOUNDINGS IN FEET AT MEAN LOWER LOW WATER North American Datum of 1983 (World Geodetic System 1984)

#### INTRACOASTAL WATERWAY Project Depths

12 feet Carrabelle, FL to Brownsville, TX. The controlling depths are published periodically in the U.S. Coast Guard Local Notice to

#### Distances

The Waterway is indicated by a magenta line. Mileage distances shown along the Waterway are in Statute Miles, based on zero at Harvey Lock, LA, and are indicated thus.

Tables for converting Statute Miles to International Nautical Miles are given in U.S. Coast

Courses are TRUE and must be CORRECTED for any variation and compass deviation

# PLANE COORDINATE GRID

(based on NAD 1927)

The Louisiana State Grid south zone is indicated on this chart by dashed ticks at 10,000 foot intervals. The last three digits are omitted.



NAUTICAL CHART 11355 INTRACOASTAL WATERWAY

THE NATION'S CHARTMAKER SINCE 1807

# LOUISIANA **CATAHOULA BAY TO WAX LAKE OUTLET** INCLUDING THE HOUMA **NAVIGATION CANAL**

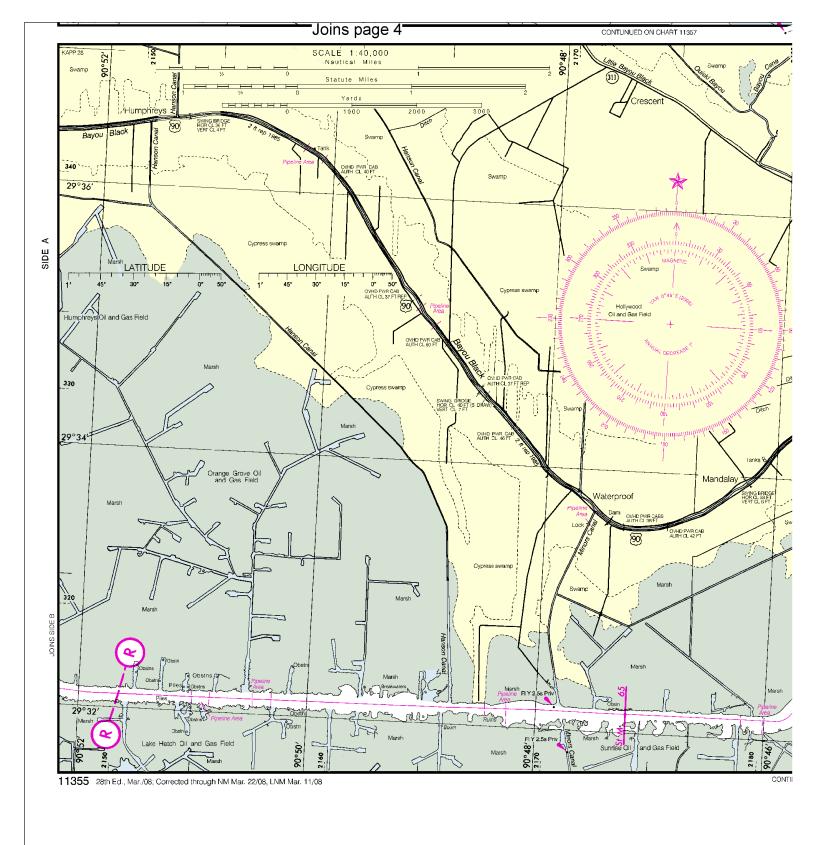




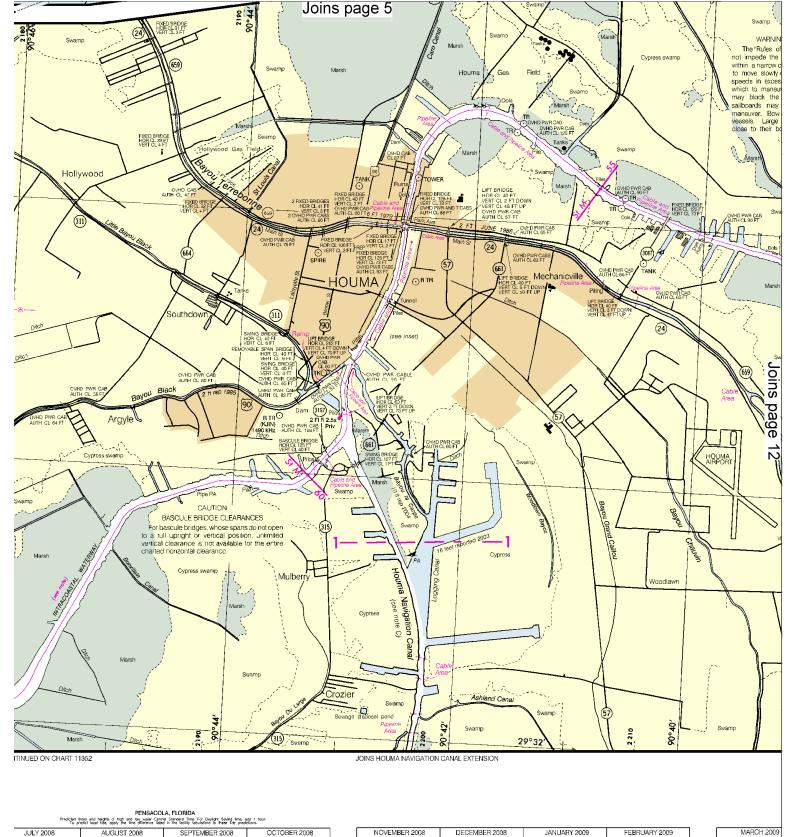
NSN 7642014010227 NGA REFERENCE NO. 11XHA11355

Chart 11355 28th Ed., Mar./08 ■
Corrected through NM Mar. 22/08, LNM Mar. 11/08 Published at Washington, D.C. U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE COAST SURVEY

Additional information can be obtained at nauticalcharts.noaa.gov.



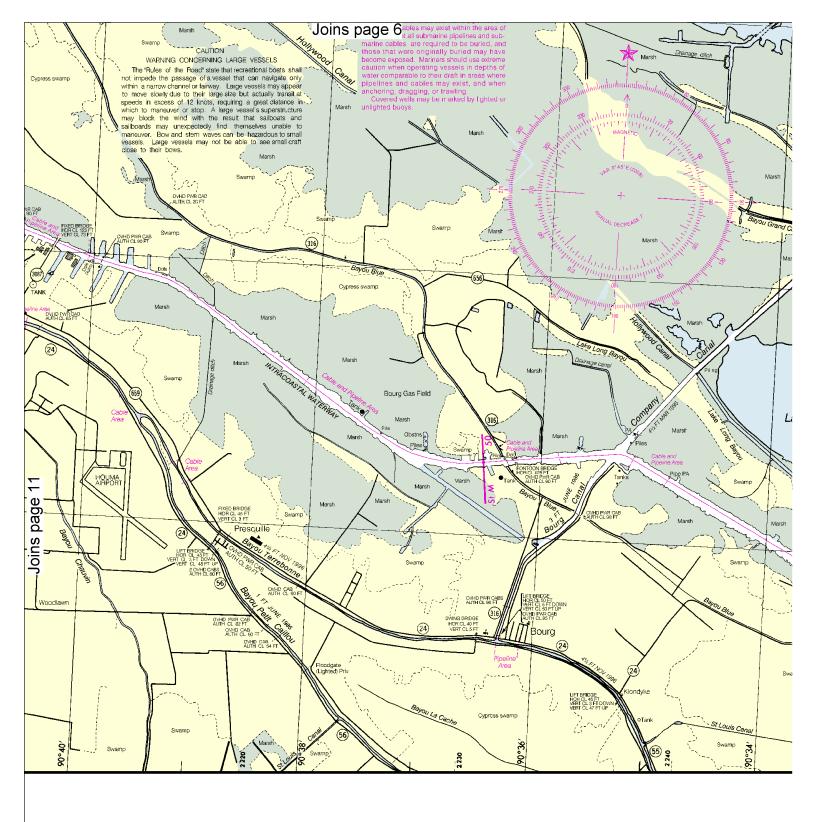
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Time H1. Day h.m. F1.	Day	Time Ht. Dmy h.m. ft.	Day	Time Ht. Day h.m. ft.	Day	Time H1. Time Day h.m. [1. Day		Day h.m
1 0445 -0.5 Sa 1741 1.2	16 0513 -0.6 Su 1845 1.4	I 0448 -C.3 Tu 1900 I.2	15 D406 0.3 W 1104 0.7 1614 0.6 2135 0.7	1 0250 0.4 Th 0945 0.6 1559 0.5 2147 0.7	16 0810 1.4 F 1816 0.0	I 0741 I.7 I6 08 8 Su 1823 -0.4 M 1945	-0.3	Tu 2005
2 0534 -0.5 Su 1847 1.3	17 0554 -G.5 M 1954 1.3	2 0507 -C.1 W 2026 1.0	17 0308 0.5 Th 0952 0.9 1746 0.3	2 0155 0.6 F 0843 1.0 1704 0.2	17 0821 1.5 Se 1849 -0.2	2 0824   1.9   17 0962 H 1932 -0.6   Tu 2037	-0.3	2 0931 W 2106
Joins	page	16:215 0.4	18 0932   F 1640 0	3 0829   1.3 Sa 1800 -0.1	18 0842   1.6 5u 1926 -0.2	3 0918 2.0 18 0947 Tu 2047 -0.7 W 2125	1.7	3 1028 Th 2197



	JULY 2008 AUGUST 2008							SEPTEMBER 2008 OCTOBER 20				ER 2008			
Time h.m.	н.	Day	Иt. 71.	Day h.m.	Ht.	Day	Ht. Ft.	Day h.n.	Ht.	Day	Ht.	Time Day h.m.	н.	Cay	Ht.
829 005	2.0	15 0903 W 2033	1.8	1 1031 F 2121	1.9	15 1010 Sa 2019	6.7	I 0044 M 0624 I317 I895	0.9	15 0543 Tu 2302	D.6 1.4	I 0831 W 2259	0.3	15 0829 Th 2247	0.0
931	-0.7	17 0945 Th 2103	1.8 -0.4	2 1118 Se 2136	0.0	17 1057 Su 2022	0.3	2 0011 Tu 0819	0.6	V 2329	D.4 1.6	2 0926 Th 2933	0.2 1.8	F 2344	2.1
028 157	-0.7	18 1020 F 2125	1.8 ·0.3	3 1205 Su 2127	0.3	18 1157 M 2010	0.6	3 0015 W 0941	b:‡	18 0922 Th	0.2	3 1038 F	0.2	18 1130 Sa	-0.2

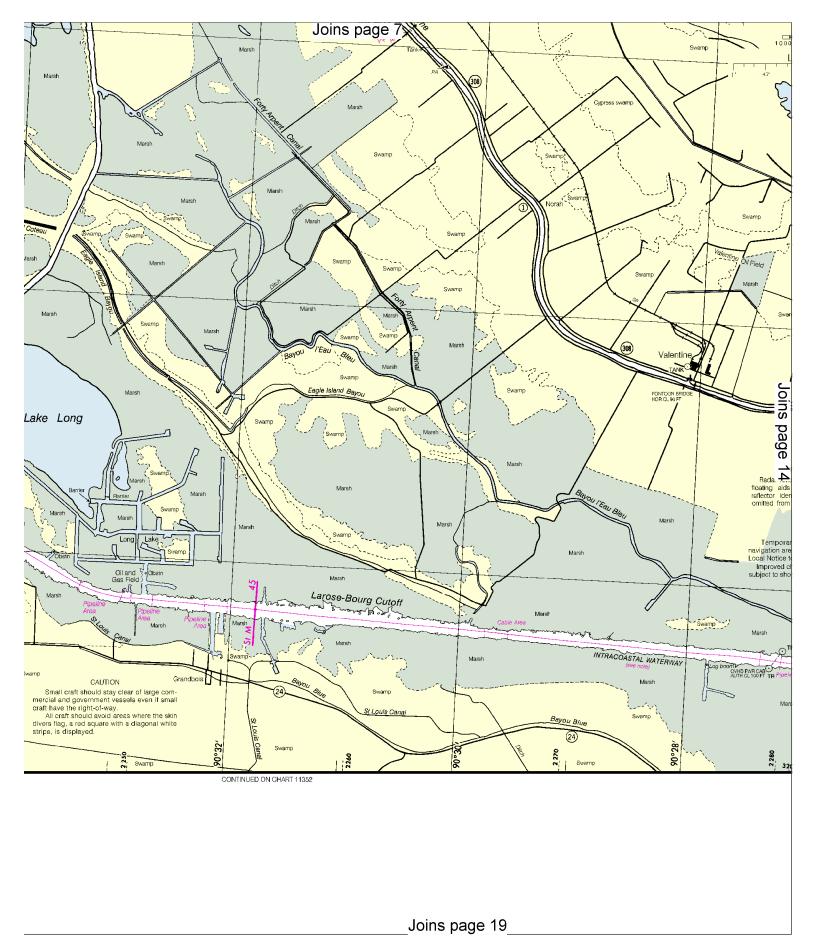
NÖVEMBER 2008	DECEMBER 2008	JANUARY 2009 FEBRUARY 2009					
Time Ht. Time Ht. Day h.m. It. h.m. ft.	Time Ht. Time Ht. Day h.m. ft. Day h.m. ft.	Time Ht. Time Ht. Day h.m. ft. Day	Time Ht. Time Ht. Day h.m. 't. Day h.m. ft.				
1 1048 G.0 18 1144 -0.6 5a 2354 1.8 Su	1 1122 -0.4 16 0041 1.6 8 70 1157 -0.6	i 0013 0.9 16 0225 3.2 Th 1022 -0.2 F 0750 3.1 1600 3.6	0010 -0.1 15 0222 -0.4 Su 1506 0.8 M 1526 1.1				
2 1156 -0.1 17 0049 2.0 N 1243 -0.5	2 0014 1.5 17 0123 1.2 Tu 1148 -0.4 W 1210 -0.3	2 0032 0.6 17 0220 -3.1 F 1004 -0.1 Sa 1606 3.8 1824 0.4	2 0150 -0.3 17 0342 -0.4 M 1546 1.0 Tu 1630 1.1				
Joins	page 17	3 0905 0.1 18 0317 -3.4 Se 1714 0.6 Su 1636 1.0	3 0316 -0.5 18 0449 -0.5 Tu 1845 1.2 W 1742 1.1				
001110	page 17						

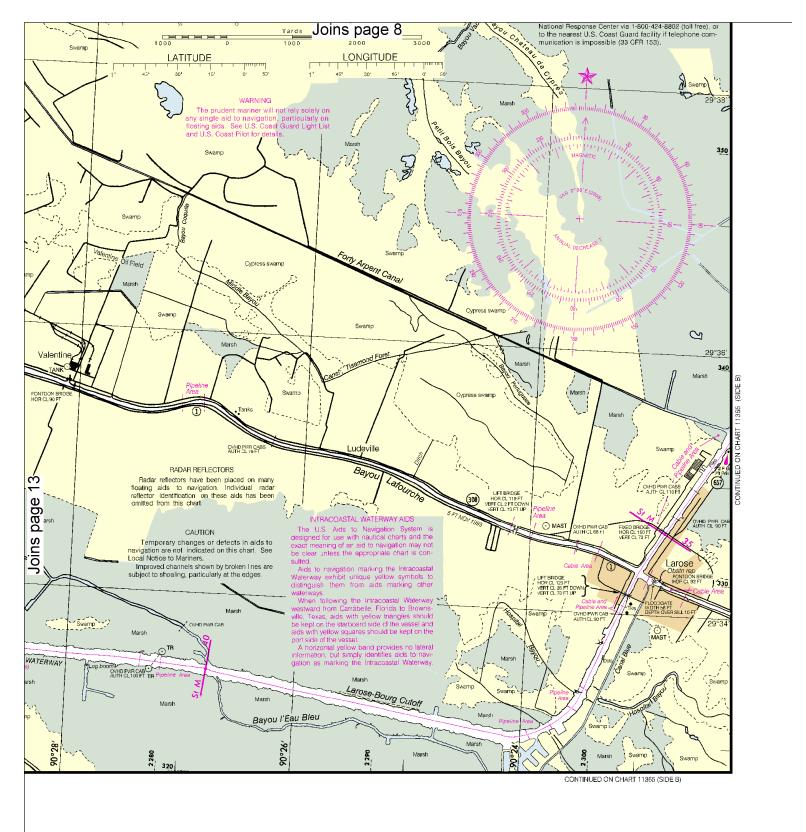
T me Day	Ht.	Time Day
h.m.	ſŧ.	h.m.
1 1311 Su 2352	-0.3	16 G008 N 1334
2 1402 M	1.2	17 0144 Tu 1434
3 0143 Tu 1508	-0.4 1.3	IB 0305 W 1542



RL	ARY 2009		1	MARCH 2009				APRIL 2009			I	MAY	2009	I	JUNE	2009	1	
HI		Ht.	1	T me Day		Day		Time Day	HI.	Time H1. Day	Time Day h.m.	Ht.	Day	Day h.m		Day	Ht.	
0.1	15 0222 · M 1526	0.4		1 1311 5u 2352	1.0	16 0008 N 1334	-0.3 1.3	1 0146 W 1450	-0.5	16 0204 -0.2 Th 1443 1.4	I 0212 F 1531	-0.4 1.5	16 0105 -0.1 Sa 1358 1.2	0739 M 1644	0.4	16 G644 Tu 1535	1.0 0.4	
-0.3	17 0342 - Tu 1630 -	0.4		2 1402 M	1.2	17 0144 Tu 1434	-0.3 1.2	2 0258 Th 1805	-0.5 1.6	17 0242 -0 2 F 1533 1.3	2 0244 Se 1637	-0.2	17 0112 0.1 Su 1336 1.0	2 0709 Tu 1713	0.1	17 0622 W 1625	0.1	
-0.5	IB 0449 - W 1742	0.5		3 0143 Tu 1508	-0.4 1.3	IB 0305 W 1542	-0.3	3 0352 F 1722	-0.5 1.5	18 0308 -0.1 Se 1626 1.2	3 0254 Su 1820	0.1	18 0104 0.3 M 0943 0.9	3 0715 W 1751	1.5	18 0532 Th ∎	1.4	
L				10 1000												Jc	)In	s page 1

Printe	ed at redu	uced scale.	— <del>S C.</del>	<del>ALE 1:40,</del> ( Iautical Mile		See Note on page 5.				
1 — —	1/2	0		1 Yards		2		3		
	1000	0	1000	2000	3000	4000	5000			



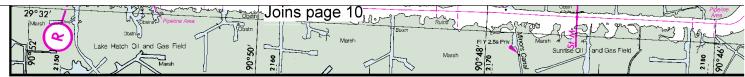


Joins page 20\_



SIDE /

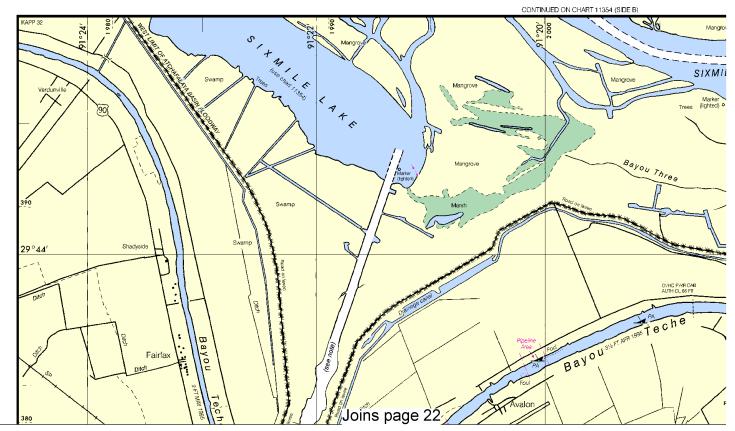
Joins page 21



11355 28th Ed., Mar./08; Corrected through NM Mar. 22/08, LNM Mar. 11/08

MARCH 2008	APRIL 2008	MAY 2008	JUNE 2008
Time H1. Time H Day h.m. f1. Pay	Day Day	Time Ht. Time Ht. Day Day h.m. ft. h.m. It.	Time Ht. Time Ht. Cay Day
1 0446 *0.5 16 0513 *0.6 Se 1741 1.2 Su 1845 1.4	1 0448 -C.3 15 0406 0.3 Tu 1900 1.2 W 1104 0.7 1614 0.6 2135 0.7	1 0250 0.4 16 0810 1.4 Th 0946 0.6 F 1816 0.0 1558 0.5 2147 0.7	1 0741 1.7 16 08 5 1.7 Su 1823 -0.4 M 1945 -0.3
2 0534 -0.5 17 0554 -0.5 Su 1847 1.3 M 1954 1.3	2 0507 -C.1 17 0308 9.5 W 2026 1.0 Th 0952 0.9 1746 0.3	2 0155 O.6 17 0821 1.5 F 0843 1.0 Se 1849 -0.2	2 0824 1.9 17 0902 1.7 H 1932 -0.6 Tu 2037 -0.3
3 05 0 -0.6 18 0819 -5.3 M 1944 1.3 Tu 2058 1.	3 0515 C.2 18 0932 1.1 Th 1212 C.5 F 1640 0.1 1508 C.4 2215 C.8	3 0829 1.3 18 0842 1.6 5a 1800 -0.1 5u 1926 -0.2	3 0918 2.0 18 0947 1.7 Tu 2047 -0.7 W 2125 -0.4
4 9638 -0.6 19 9625 0.6 Tu 2036 1.3 W 2207 0.6	4 0501 C.4 19 0934 1.3 F 1025 C.7 Sa 1920 -0.1	4 0844 1.5 19 0911 1.7 Su 1900 -0.4 M 2012 -0.3	4 1018 2.1 19 1029 1.8 W 2159 -0.7 Th 2203 -0.4
5 0559 -0.4 20 0604 C.: % 2135 1.1 Th 1205 0.5	5 0100 C.7 20 0948 1.4 Se 0338 C.6 Su 1959 -0.2 0952 1.0 1831 C.0	5 D921 1.6 20 0948 1.7 M 2009 -0.5 Tu 2106 -0.3	3 1117 2.1 20 1105 1.8 Th 2301 -0.7 F 2232 -0.4
6 07 4 -0.2 21 0509 0.4 Th 2243 0.9 F 1113 0.	6 0958 1.2 21 1011 1.5 Su 1940 -C.3 M 2044 -O.2	6 1010 1-9 21 1031 1-7 Tu 2128 -0.6 W 2207 -0.3	6 1212 2:0 21 1138 1:7 F 2349 -0:6 Se 2252 -0:4
7 97 6 0.0 22 11D2 0.6 F 13 3 0.3 Se 1959 0.6 1639 0.2	7 1027 1.5 22 1043 1.5 M 2053 -C.4 Tu 2141 -0.2	7 1109 2.0 22 1114 1.7 W 2253 -0.6 Th 2900 -0.9	7 1300 1.8 22 1205 1.5 Sa 2306 -0.2
0 00 4 0.7 23 1109 1. Se 0650 0.3 Su 2045 -0. 1152 0.5	0 1113 1.6 23 1124 1.6 Tu 2220 -0.5 W 2255 -0.2	8 1211 2.0 23 1156 1.7 Th F 2342 -0.3	8 CO21 -0.4 23 1295 1.4 Su 1339 1.5 W 23 2 0.0
9 0251 0.5 24 1127 1.3 5a 0502 0.4 M 213A -0.3 1136 0.8 2026 -0.2	9 1211 1.7 24 1211 1.6 W 2359 -C.5 Th	9 0010 -0.6 24 1234 1.7 F 1313 1.9 5a	9 0032 -0.1 24 1259 1.1 W 1357 1.1 Tu 2302 0.2
10 1155 1.1 25 1156 1.1 M 2154 -0.3 Tu 2244 -0.2	10 1318 1.7 25 0010 -0.2 Th 1301 1.8	10 0111 -0.5 25 0013 -0.3 Sa 1411 -1.7 Su 1308 -1.6	10 0013 0.2 25 08 0 0.8 Tu 0993 0.8 W 22 8 0.4 2304 0.4
Tu 2333 -0.4 W	11 0131 -C.5   26 0109 -0.3   F 1430   1.7   Se 1551   1.6	II 0153 -0.3 26 0035 -0.2 Su 1503 -1.5 M 1339 -1.4	II 0719 I.O 20 00 2 I.O W 1804 Q.4 Th 1520 Q.4
12 1331 1-4 27 0015 -0-2 % Th 1329 1.5	12 0243 -C.5 27 0152 -0.3 Se 1545 1.6 Su 1439 1.5	12 0216 -0-1 27 0046 -0-1 M 1545 -1-2 Tu 1403 -1-2	12 0648 1.2 27 0546 1.2 Th 1713 0.1 F 1548 0.1
13 0123 -0.5 28 0149 -0.2 Th 1442 1.5 F 1431 1.2	13 0335 -C.4 28 0222 -0.2 5u 1657 1.5 M 1527 1.4	13 D212 0.2 26 0049 D.1 Tu 1153 0.8 W 1026 D.9	13 0650 1.4 26 0558 1.5 F 1736 -0.1 Se 1641 -0.2
14 0301 -0.6 29 0258 -0.5 F 1603 1.5 Se 1538 1.4	14 0409 -C.2 29 0244 -O.1 M 1810 1.2 Tu 1629 1.2	14 0127 0.4 29 0023 0.4 W 0902 0.9 Th 0902 0.9 1721 0.5 1803 0.5	14 0709 1.5 29 0635 1.7 Se 1811 -0.2 Su 1746 -0.4
15 04 6 -0.6 30 0347 -0.3 Sa 1728 1.5 Su 1644 1.2	15 0421 C.0 30 0256 0.1 Tu 1934 1.0 W 1828 0.9	15 0818 1.1 30 0718 1.1 Th 1746 0.2 F 1836 0.1	13 0739 1.6 30 0728 1.9 Su 1954 -0.3 W 1856 -0.8
31 0421 -0. M 1750 1.		31 0716 1,4 5e 1724 -0.2	

	Time Ht. Day h.m. ft. 16 08 5 1.7 M 1945 -0.3
1 9446 -0.5 16 0513 -0.6 1 0440 -0.3 15 9466 0.3 1 0230 0.4 16 0810 1.4 1 1741 1.7 Se 1741	16 08 5 1.7 M 1945 -0.3
2 0534 -0.5   17 0554 -0.5   2 0507 -C.1   17 0508 -0.5   2 0155 -0.6   17 0621 -1.5   2 0624 -1.9   50 1847 -1.3   M 1954 -1.3   W 2026 -1.0   Th 0652 -0.9   F 0643 -1.0   5e 1649 -0.2   M 1952 -0.6   1746 -0.3   1704 -0.2   1704 -0.	17 0902 1.7 Tu 2037 -0.3
3 05 0 -0.5 18 0619 -0.3 3 0515 C.2 19 0602 1.1 3 0620 1.3 18 0642 1.6 3 0618 2.0 M 1944 1.3 10 2055 1.1 15182 C.5 F 1640 0.1 5a 1600 -0.1 5u 1926 -0.2 Tu 2047 -0.7 2018 1.6 2.0 1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	IB 0947 1.7 W 2125 -0.4
4 9888 -0.6 19 9525 0.0 4 9501 C.4 19 9624 1.3 4 9844 1.5 19 9911 1.7 4 1916 2.1 Tu 2015 1.3 W 2207 0.9 F 1025 C.7 5 8 1920 -0.1 Su 1920 -0.4 M 2012 -0.3 W 2159 -0.7	19 1029 1.8 Th 2203 -0.4
5 0899 -0.4 20 0804 0.2 5 0100 C.7 20 0848 1.4 5 0821 1.6 20 0848 1.7 5 1117 2.1	20 1105 1.8 F 2232 -0.4
6 07 4 -0.2 21 0509 0.4 6 0858 1.2 21 0511 1.5 6 1010 1.9 21 1031 1.7 6 1212 2.0 Th 2243 0.8 F 1113 0.7 8x 1840 -c.3 M 2544 -0.2 Tu 2128 -0.6 W 2207 -0.3 F 2349 -0.6	21 1138 1.7 Se 2252 -0.4
7 07 6 0.0 22 1192 0.8 7 1027 1.5 22 1043 1.5 7 1108 2.0 22 1114 1.7 7 1300 1.8 F 33 0.2 8 1959 0.2 M 2053 -c.4 Te 2141 -0.2 W 2253 -0.8 Th 2300 -0.3 Sa 1050 0.2	22 1205 1.6 Su 2306 -0.2
8 0 0 4 0.7 23 1103 1.1 6 1113 1.5 23 1124 1.6 8 1211 2.0 23 1159 1.7 8 0 021 -0.4 8 0 0550 0.5 8 0 2045 -0.1 8 0 2220 -0.5 9 2255 -0.2 18 121 2.0 23 1159 1.7 8 0 1339 1.5 1154 0.5	23 1295 1.4 W 23 2 0.0
9 0281 0.5 24 1127 1.2 9 1211 1.7 24 1211 1.6 9 0010 -0.6 24 1234 1.7 9 0002 -0.1 \$1.050 0.8 1289 -0.2 97.2 98.2 98.2 98.2 98.2 98.2 98.2 98.2 98	24 1259 I.I Tii 2302 B.2
10   155   1.1   25   156   1.3   10   1310   1.7   25   2010   -0.2   10   0111   -0.5   25   0013   -0.3   10   0013   0.2	25 08 0 0.8 W 22 8 0.4
11 295   1.3   25 1257   1.3   11 0131   -C.5   26 0109   -D.5   11 0153   -D.3   25 0035   -D.2   11 0719   1.0   2533   -D.4   W 1804   0.4   W 1804   0.4	26 05 2 1.0 Th 1520 0.4
12 131 1 -4 27 0015 -0-2 12 0245 -0-5 27 0152 -0-3 12 0216 -0-1 27 0046 -0-1 12 0646 1.2 % 1346 1.3 % 1346 1.5 M 1545 1.2 % 10 1405 1.2 % 10 1713 0.1	27 0546 1.2 F 1548 0.1
13 0123 -0.5 28 0149 -0.2 13 0335 -0.4 28 0222 -0.2 13 0212 0.2 26 0049 0.1 13 0650 1.4 Tu 1153 0.8 W 1028 0.9 F 1736 -0.1	28 0558 1.5 Se 1641 -0.2
14 0301 - 0.6   29 0259 - 0.3   14 0409 - 0.2   29 0244 - 0.1   14 0127 - 0.4   29 0222 - 0.4   14 0709   1.5   F 1603   1.5   56 1536   1.4   14 0101   1.2   76 1526   1.2   9 0202 - 0.6   15 0602 - 0.6   1003 - 0.5   1003	29 0635 1.7 Su 1746 -0.4
15 04 6 - 0.6 30 0347 - 0.3 15 0421 C.0 33 0256 0.1 15 0619 1.1 30 0716 1.1 15 0739 1.6 5a 1726 1.5 5a 1644 1.4 17 1934 1.0 W 1628 0.9 Th 1746 0.2 F 1636 0.1 5a 1684 - 0.3	30 0728 1.9 W 1856 -0.6
31 0421 -0.3 M 1750 1.3	







ITINUED ON CHART 11352 JOINS HOUMA NAVIGATION CANAL EXTENSION

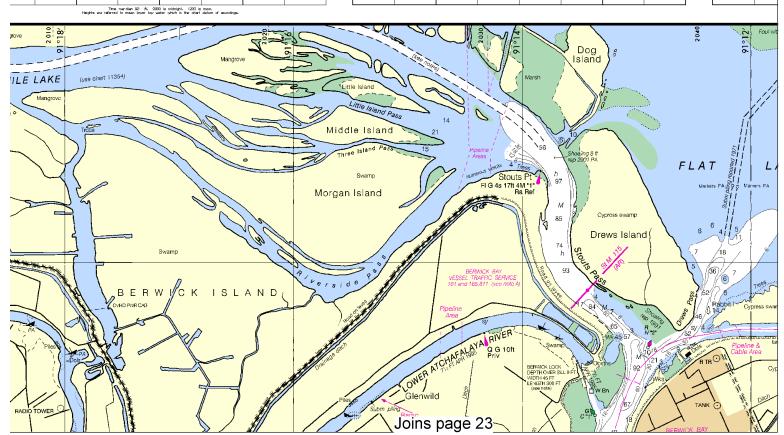
PENSACOLA, FLORIDA

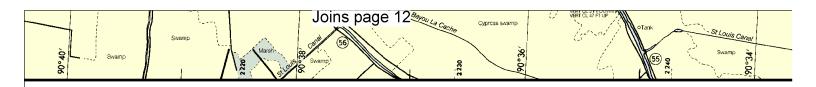
Predicipel times and heights of high and lay, maker-Central Standard Time. For Daylight, Saving time, add I hour To pradict local tide, apply the time difference intelled in the facility faculations to these for predictions.

JUL	Y 2008		AU	T 2008	SEP	SEPTEMBER 2008				TOB	ER 2008			
Time H	Day	Ht.	Time Day	Ht.	Time Day h.m.	Ht.	Time Day h.T.	Ht.	Time Dey h.m.	Ht.	Time Day	н.	Time Cay	Ht.
829 2 005 -0	16 0903	1.8		-0.2	15 1010 Sa 2019	6.7	1 5044 M 0624 1317 1805	0.9	15 0643 Tu 2302	0.6	1 0831 W 2259	0.3	15 0828 Th 2247	0.0
931 2. 106 -0.	17 0945 7 Th 2109	1.8	2 1118 Se 2136	0.0	17 1057 Su 2022	0.3	2 0011 Tu 0818	0.6	17 0802 W 2329	D.4 1.6	2 0926 Th 2333	0.2	17 0952 F 2344	-0.1 2.1
028 2. 157 -0.	18 1020 7 F 2125 -	1.8	3 1205 Su 2127	1.4	18 1157 M 2010	6.6	3 0015 W 0941	b:4	18 0922 Th	0.2	3 103a F	0.2	18 1130 Sa	-0.2
120 2. 236 -0.	19 1053 5a 2139 -	1.7	4 1258 M 2040	0:6	19 0216 Tu 0638 1325 1923	0.B 0.7 1.0 0.8	4 0035 Th 1057	0.4	19 0003 F 1056	1.8	4 0016 58 1204	1.8	19 0050 Su 1300	2.1
205 I. 259 -0.	8 20 1127 5u 2147	1.8 0.0	5 0306 To 0920 1426 1853	0.9 0.7 0.8 0.7	20 0121 ₩ 0855	6.6	5 G109 F 1224	0.3	20 0059 Se 1246	1.9	5 0109 Su 1332	0.2	20 0200 N 1410	2.1
243 I. 301 0.	5 21 1204 M 2145	0.2	6 0236 W 1159	1.1 0.5	21 0119 Th 1043	0.4	6 0135 Se 1401	0.3	21 0210 Su 1426	2.0	6 0210 M 1437	0.2	21 0311 Tu 1502	1.9 -0.1
311 1. 229 0.	22 1254 Tu 2124	0.4	7 0244 Th 1933	1.3	22 0147 F 1231	0.2	7 0238 Su 1526	0.2	22 0330 M 1543	2.0	7 0315 Tu 1521	1.8 0.1	22 0423 W 1538	1.8
700 0. 106 0.	23 0443 W 1019 1427 2016	0.0 0.7 0.9 0.6	5 0312 F 1446	0.2	23 0238 Se 1419	0.1	8 0410 M 1629	0.2	23 0455 Tu 1 <b>64</b> 0	2.0	6 0418 W 1552	0.2	23 0535 Th 1550	0.3
514 L. 632 0.	24 0350 Th 1255	0.4	9 0356 Sa 1556	1.5 0.1	24 0346 Su 1551	-6.1	9 0525 Tii 1714	0.1	24 0614 W 1722	2.0	9 0521 Ti 1613	0.2	24 0715 F 1533 2215	1.2 0.6 1.0
459 I. 558 Q.	25 0352 F 1423	1.3	10 0454 Su 1703	1.6	25 0506 M 1706	-0.2	IO 0632 W 1748	1.8	25 0727 Th 1749	0.2	ID 0633 F 1626	1.5 0.4	25 0406 Sa 0943 1421 2111	0.8 0.9 0.8
513 1. 631 0.	1 26 0425 5e 1542 -	1.5	N 1901	0.0	26 0627 Tu 1906	2.0 -0.3	11 0728 Th 1812	0.1	26 0840 F 1757	0.5	11 0807 5a 1625 2258	1.3 8.6 1.0	28 0531 Su 2058	0.5
544 I. 717 -0.	5 27 0519 Su 1659 -	1.7	12 0707 Tu 1847	1.7 -0.1	27 0739 1 1654	-0.2	12 0821 F 1829	0.3	27 1002 Sa 1733	0.8	1≥ 0347 S⊒ 1008 1559 2146	0.8 1.1 0.9 1.1	27 0623 W 2164	0.2
526 I. 510 -0.	26 0626 M 1810 -	1.9 -0.4	13 0603 W 1923	1.8 -0.1	28 0842 Th 1930	-0.1	13 0920 Se 1837	6:5	28 0504 Su 1156	8.0	13 0514 N 2124	0.6	28 0705 Tu 2123	9:1 1:7
720 I. 905 -0.	7 29 0735 Tu 1914 -	2.0 -0.5	14 0849 Th 1949	1.8	29 0940 F 1963	0.2	14 1032 Su 1831	0.7	29 0635 N 2221	0.6	14 0617 Tu 2132	0.3	29 0747 W 2150	0.0
914 I. 954 -0.	7 3G 0841 W 2007	2.1	13 0930 F 2907	0.0	30 1037 Se 1965	1.6 0.5	15 0003 M 0501 1209 1756	0.9	30 0738 Tu 2235	0.4	13 0718 W 2202	0.1	30 0838 Th 2226	0.0
	31 0939 Th 2050	-8.1 -6.4			31 1143 Su 1924	6.7	2310	112					31 0936 F 2308	0.0

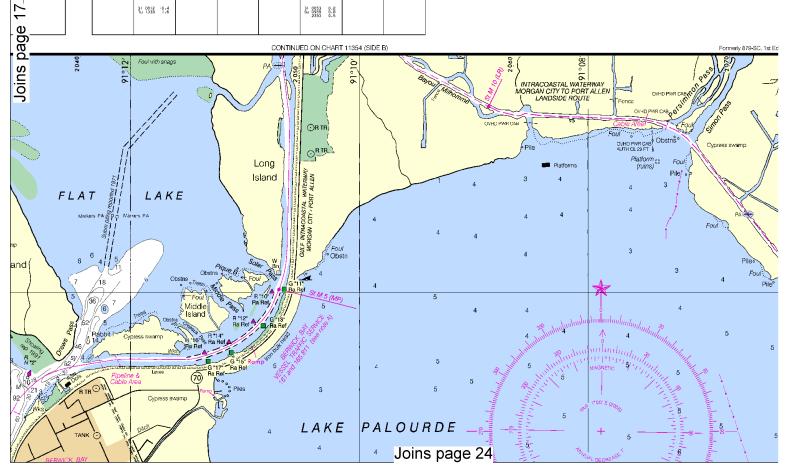
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Time Ht. Day	Time Ht. Day	Time Ht. Day	Time Ht. Day F.m. It.	Time Ht. Time Ht. Day Day Day	Time Ht. Time Ht. Day h.m. 't. Day h.m. It.
1 1048 G.0 Se 2354 1.8	16 1144 -0.6 Su	11122 -0.4	16 CG41   1.6 Tu   157 - 0.6	I 0013 0.9 16 0226 3.2 Th 1022 -9.2 F 0750 3.1 1600 3.6	0010 -0.1 16 0222 -0.4 Su 1506 0.8 M 1526 1.1
2 1156 -0.1 Su	17 0049 2.0 N 1243 -0.5	2 0014 1.5 Tu 1148 -0.4	17 0123 1.2 W 1210 -0.3	2 0032	2 0150 -0.3 17 0342 -0.4 N 1546 1.0 Tu 1690 1.1
3 0042 1.7 M 1249 -6.1	18 0145   1.8 To 1325 -0.4	3 DD43 1.4 W 1204 -0.3	18 0154 0.8 Th 1150 0.3	3 0905 0.1 18 0317 -3.4 Se 1714 0.6 Su 1636 1.0	3 0315 -0.5 IB 0449 -0.5 To 1845 I.2 W 1742 I.1
4 0127 1.7 Tu 1326 -0.1	19 0236 1.5 W 1349 -0.1	4 DIGB 1.2 Th 1212 -0.2	19 1026 0.2 F 1631 0.7	4 0257 0.5 19 0411 -3.5 Su 1704 0.8 M 1716 1.0	4 0433 -0.7 IB 0642 -0.5 W 1756 I.3 TH 1851 I.1
5 0208 1.6 W 1352 0.0	20 0322 1.2 Th 1345 0.2 2306 0.8	5 0110 0.9 F 1207 0.0 9121 0.7	20 0429 0.1 Sa 1507 0.9	5 0329 -0.3 20 0566 -3.6 M 1726 1.6 Tu 1811 1.1	5 0542 -0.9 20 0624 -0.6 Th 1906 1.4 F 1948 1.2
8 0247   1.4 Th 1468   0.1	21 1255 0.4 F 2022 0.9	6 1131 0.2 Se 1927 0.8	21 0439 -0.2 Su 1616 1.1	6 0424 -0.6 21 0602 -3.7 Tu 1810 1.2 W 1910 1.1	8 0641 -1.0 21 0654 -0.8 F 2015 1.5 Se 2035 1.2
7 0331 1.2 F 1412 0.3 2320 0.9	22 0445 0.4 5e 1942 1.1	7 D407 0.2 Su 1850 1.0	22 0512 -0.4 M 1842 1.3	7 0528 -0.5 22 0653 -3.7 W 1907 1.4 Th 2006 1.2	7 0731 -1.0 22 0714 -0.5 Se 2116 1.5 Su 2118 1.1
8 0256 0.8 Se 0539 0.9 1356 0.5 2104 1.0	23 0521 0.1 Su 1940 1.4	8 0422 -0.1 8 1651 1.2	23 0554 -0.6 Tu 1919   1.3	e 0535 -0.5 23 0737 -3.7 Th 2010 1.5 F 2054 1.2	8 0812 -0.9 Se 2212 1.3 M 2202 1.0
9 0411 0.6 Su 0958 0.7 1232 0.6 2015 1.2	24 0656 -0.2 N 1955 1.5	9 0505 -0.4 Tu 1916 1.4	24 0642 -0.6 W 2604   1.3	9 0739 -1.1 24 0811 -3.7 F 2112 1.6 Sa 2135 1.2	9 0843 -0.7 24 0731 -0.2 M 2306 1.1 Tu 2255 0.8
10 0456 0.2 N 2005 1.4	25 0633 -0.3 Tu 2022   1.6	10 0603 -0.6 W 2003 1.6	25 0734 -0.6 Th 2052   1.4	10 0836 -1.1 25 0836 -3.7 Se 2209 1.6 Su 2209 1.2	10 0858 -0.4 25 0724 0.0 Tu W 1405 0.3 1656 0.2
11 0544 0.1 Tu 2023 1.8	26 0715 0.4 W 2036 1.6	II 07II 0.5 Th 2058 I.S	26 0526 0.7 F 2138 1.4	II 0924 I.I 25 0851 3.7 Su 2301 I.E M 2241 I.I	1 0006 0.6 W 0843 -0.1 1447 0.2 1809 0.1 1912 0.1
12 0640 -0.3 W 2059 1.8	27 0804 -0.4 Th 2136 1.6	12 0824 -0.9 F 2156 1.8	27 0910 -0.7 Sa 2219 1.4	12 1002 -0.9 27 0859 -0.5 M 2350 1.3 To 2315 0.9	12 0125 0.5 Th 0741 0.2 1335 0.4 2106 0.0 2043 0.0
13 0747 *0.4 Th 2149 2.0	26 0901 -0.4 F 2219 1.6	13 D935 -1.0 5a 2257   .9	26 0645 -0.7 Su 2253 1.4	13 1025 -0.6 28 0900 -3.4 Tu W 2357 3.7	13 1334 0.7 28 1239 0.9 F 2311 -0.2 Sa 2211 -0.2
14 0906 -0.5 F 2247 2.0	29 0957 -0.4 5e 2302   1.6	14 1036 -1.0 Su 2352 1.8	29 1009 -0.7 W 2322   1.3	14 0038 0.9 29 0849 -3.2 W 1025 -0.3 Th	14 1357 0.9 Se
15 1029 -0.8 5e 2348 2.0	30 1045 -0.4 Su 2341 1.6	15   124 -0.8 H	30 1025 -0.6 Tu 2249   1.1	15 0123 0.6 30 0055 1.4 Th 0943 0.0 F 0816 1.0 1649 0.2 1509 1.4 2307 0.1 2201 1.1	15 0052 -0.3 Su 1435 1.0
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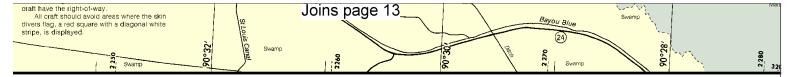
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15 1246 1.2 3 T	13 1138 F 2126	-0.2	S						
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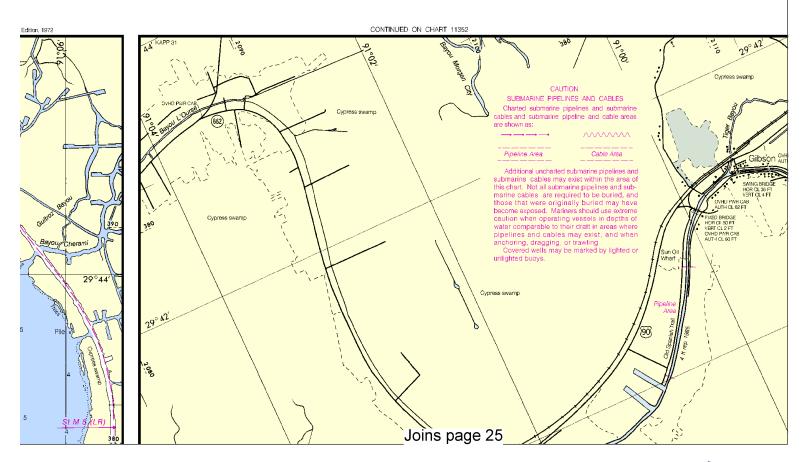


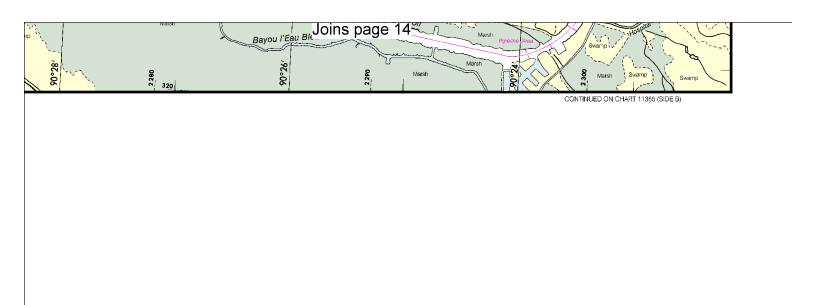
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1 1311 1.0	16 0008 -0.3	1 0146 -0.5	16 0204 -0.2	1 0212 -0.4 16 0105 -0.1	0739 1.0 16 0644 1.0
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2 1402 1.2	17 0144 -0.3	2 0258 -0.5	17 0242 -0 2	2 0244 -0.2 17 0112 0.1	2 0709 1.2 17 0622 1.2
M	Tu 1434 1.2	Th 1805   1.6	F 1533 1.3	Se 1637 1.2 Su 1336 1.0	Tu 1715 0.1 W 1825 0.1
3 0143 -0.4	IB 0305 -0.3	3 0352 -0.5	18 0308 -0.1	3 0254 0.1 18 0104 0.3	3 0715 1.5 18 0632 1.4
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4 0317 -0.6 W 1625 1.4	19 0402 -0.3 Th 1653 1.2	4 0433 -0.3 Se 1841 1.3	19 0322 0.0 Su 1756 1.0	4 0229 0.4 19 0028 0.4 W 0926 0.5 1 0616 1.0 1625 0.5 1645 0.4 2205 0.6	4 0738 1.8 19 0704 1.6 Th 1835 -0.3 F 1802 -0.3
5 0428 -0.7 Th 1746 1.5	20 0443 -0.3 F 1900 1.2	5 0458 -0.1 Su 2009 1.1	20 0323 0.2 W 1146 0.7 1503 0.6 1945 0.6	5 0033 0.5 20 0747 1.2 Tu 0835 1.1 W 1707 0.1	5 0811 1.7 20 0751 1.8 F 1923 -0.3 5a 1907 -0.5
6 0525 -0.7 F 1901 1.5	21 0511 -0.3 Se 1900 1.2	8 0503 0.2 N 1200 0.5 1502 0.4 2159 0.8	21 0308 0.4 Tu 0953 0.8 1641 0.5 2243 0.6	6 0628 1.3 21 0747 1.4 1 1620 -0.1 Th 1747 -0.1	6 0851 1.7 21 0846 2.0 Se 2015 -0.3 Se 2014 -0.6
7 0611 -0.7 Se 2011 1.4	22 0530 -0.2 Su 2001 1.0	7 0430 0.5 Tu 1012 0.7 1722 0.3	22 0202 0.5 W 0911 1.0 1734 D.2	7 0843   1.5   22 0869   1.6   Th 1904 -0.2   F 1840 -0.3	7 0934 1.7 22 6944 2.1 Su 2107 -0.3 M 2115 -0.7
8 0646 -0.5	23 0530 0.0	8 0947 1.0	23 0901 1.2	9 0909   1.5   23 0947   1.9   F 1951   -0.3   Se 1944   -0.5	8 1017 1.7 23 1040 2.1
Su 2118 1.2	N 2112 0.9	W 1836 0.0	Th 1822 0.0		M 2154 -0.3 Tu 2208 -0.7
9 0708 -0.2	24 0536 0.2	9 0963 1.2	24 0916 1.4	9 0942 1.7 24 0937 1.9	9 1057 1.7 24 1132 2.0
N 2230 1.0	Tu 1212 0.5	Th 1934 -0,1	F 1916 -0.2	Se 2044 -0.3 Su 2056 -0.6	Tu 2231 -0.3 W 2251 -0.6
10 0707 0.1 Tu 1254 0.3 1621 0.2 2358 0.7	25 0514 0.4 W 1057 0.6 1744 0.2	10 1014 1.4 F 2028 -0-2	25 0947   1.6 Se 2020 -0.3	10 1022 1.7 23 1033 2.0 Su 2143 -0.3 M 2206 -0.6	10
W 1134 0.5 1943 0.1	26 0048 0.6 Th 0419 0.5 1033 0.9 1853 0.0	11 1044 1.5 5e 2125 -0.2	26 1032 1.7 Su 2138 -D.4	N 2244 -0.2 Tu 2311 -0.6	1 1200 1.6 25 1306 1.5 Th 2315 -0.2 F 2332 0.0
12 1123 0.8	27 1037 1.1	12 1122 1.5	27   127   1.8	12 1148 1.7 27 1225 2.0	12 1223 1.5 27 1346 1.1
Th 2012 -0.1	F 1955 -0.1	Su 2235 -0.2	W 2303 -0.5	Tu 2338 -0.3 W	F 2324 -0.1 Sa 2309 0.3
13 1138 1.0	26 1100 1.3	13 1207 1.5	28 1227 1.9	13 1236 1.6 28 0003 -0.6	13 1236 1.3 26 0724 0.6
F 2126 -0.2	Se 2105 -0.3	N 2355 -0.2	Tu	Th 1317 1.8	Se 2324 0.1 Su 2140 0.5
14 1207 1.2	29 1141 1.4	14 1256 1.5	29 0022 -0.5	14 0019 -0.2 29 0041 -0.4 Th 1306 -1.5 F 1403 -1.5	14 1218 1.0 29 0542 1.0
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	31 0012 -0.4 Tu 1338 1.6			31 0053 0.2 Su 0959 0.B 2353 0.5	

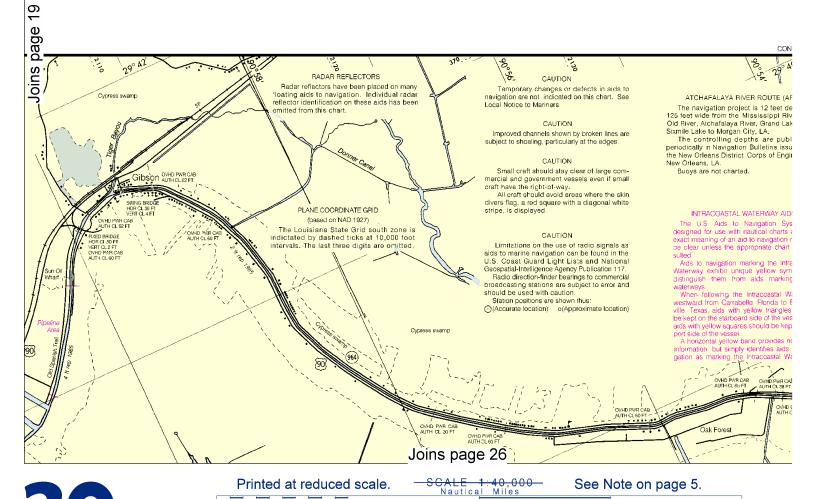




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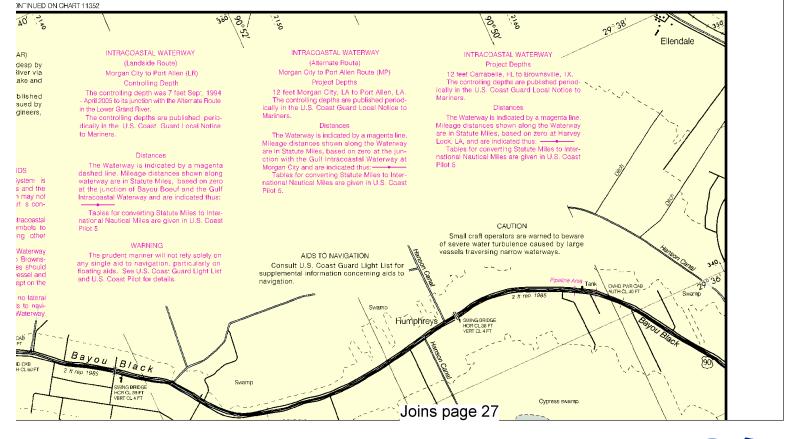


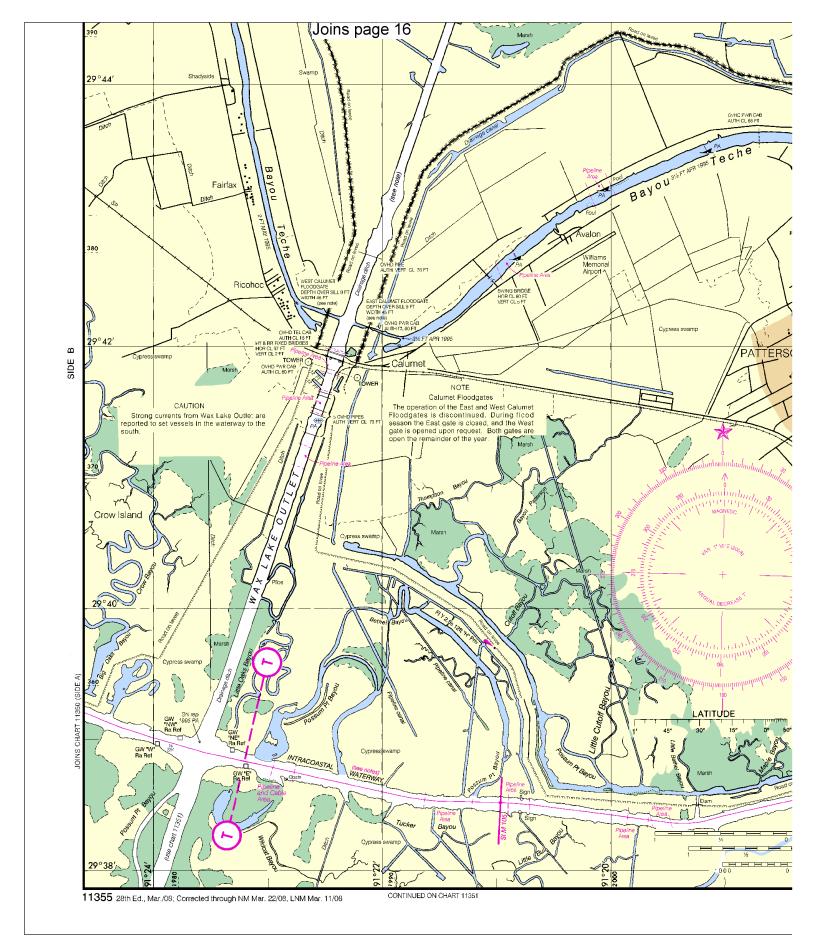




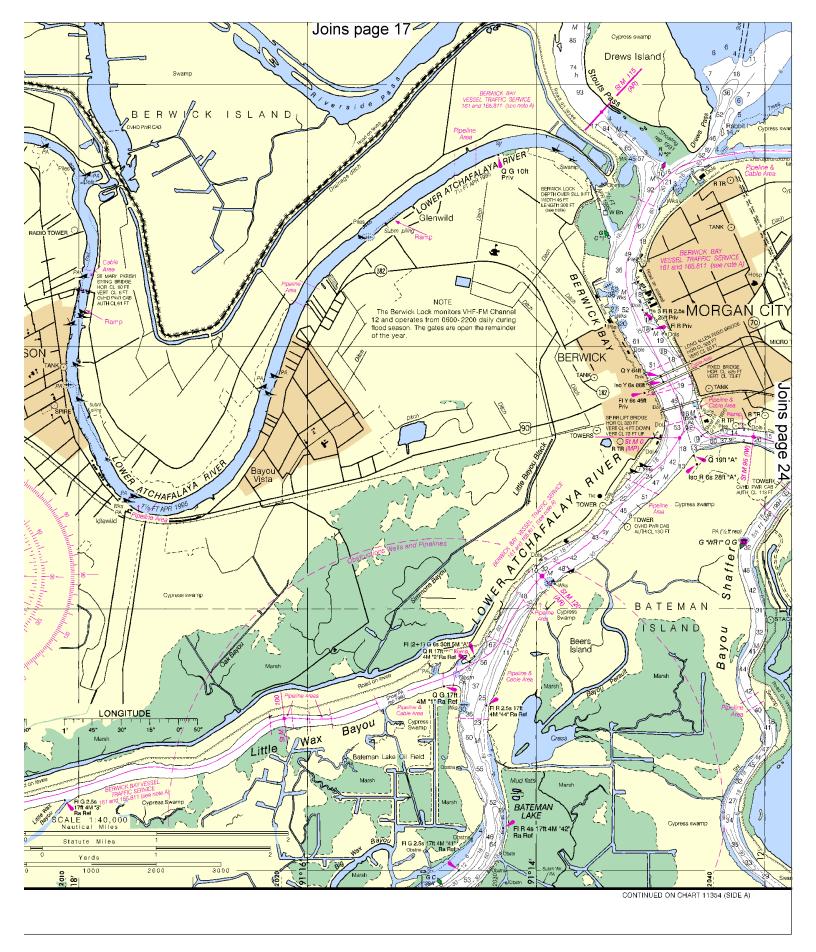
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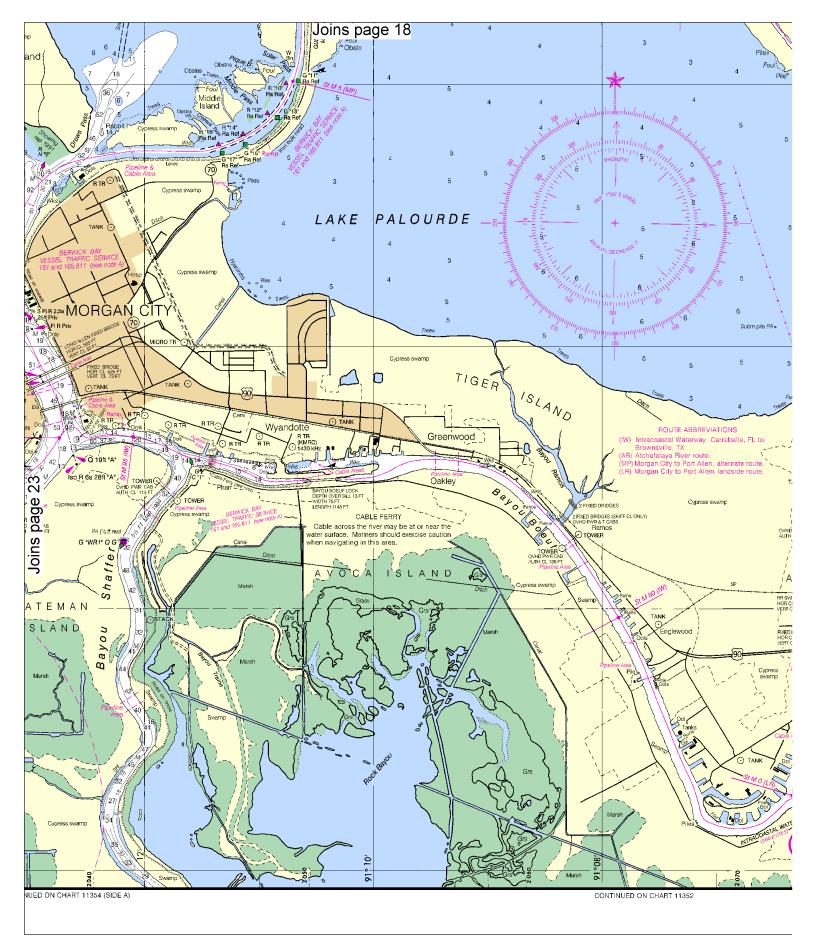
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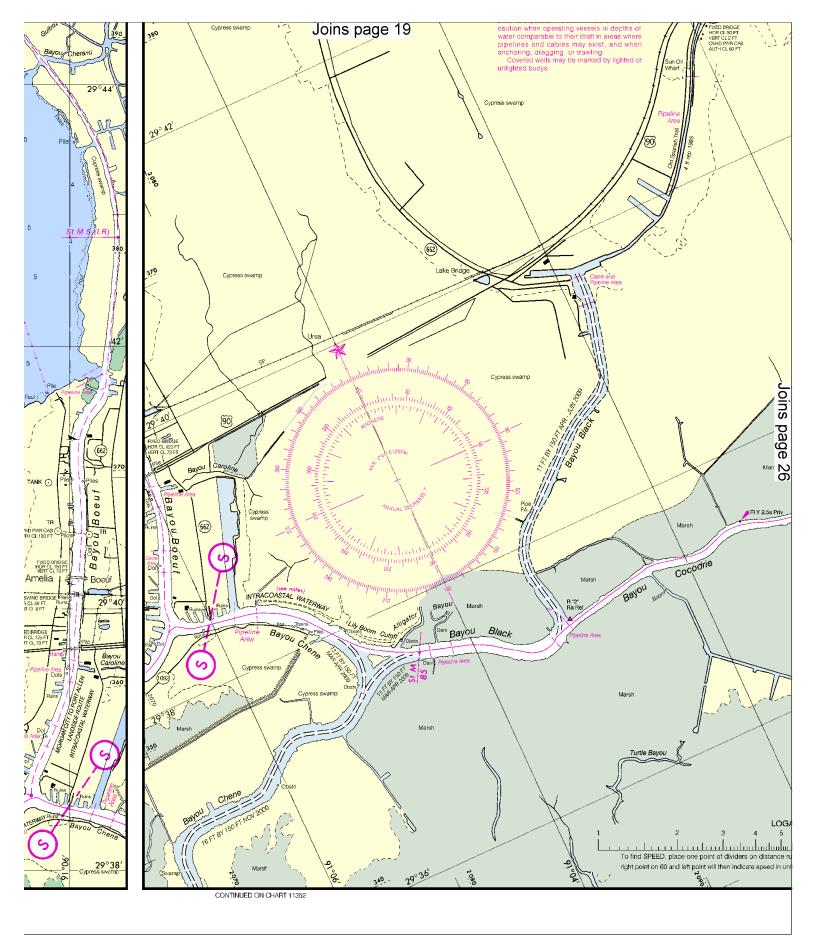


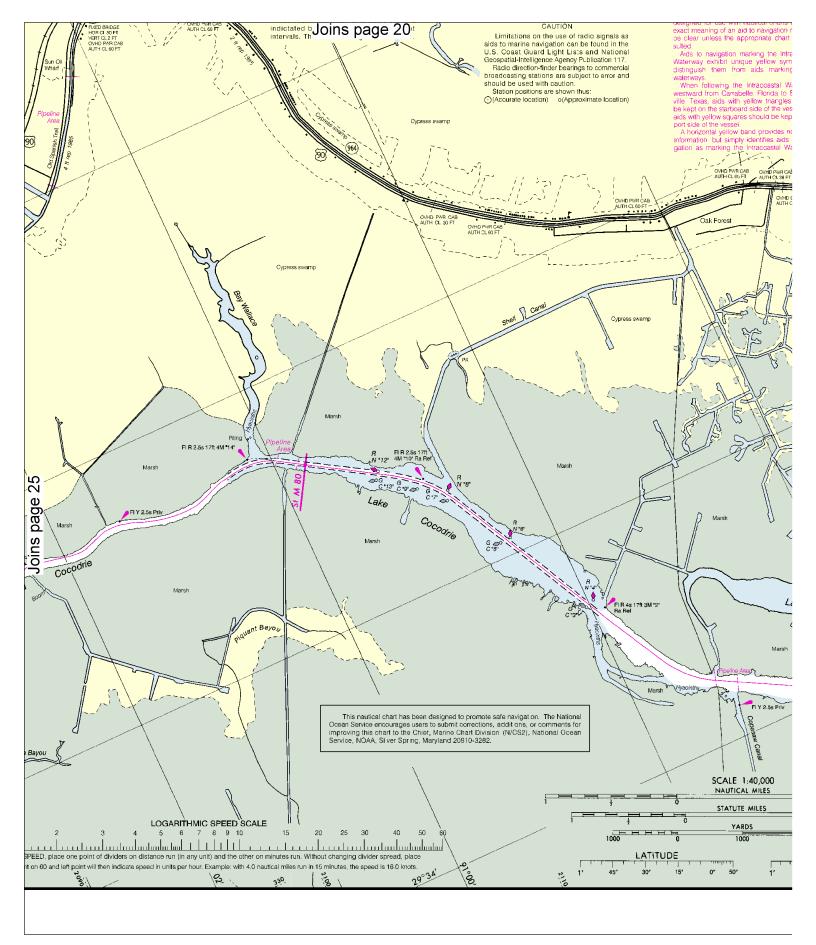




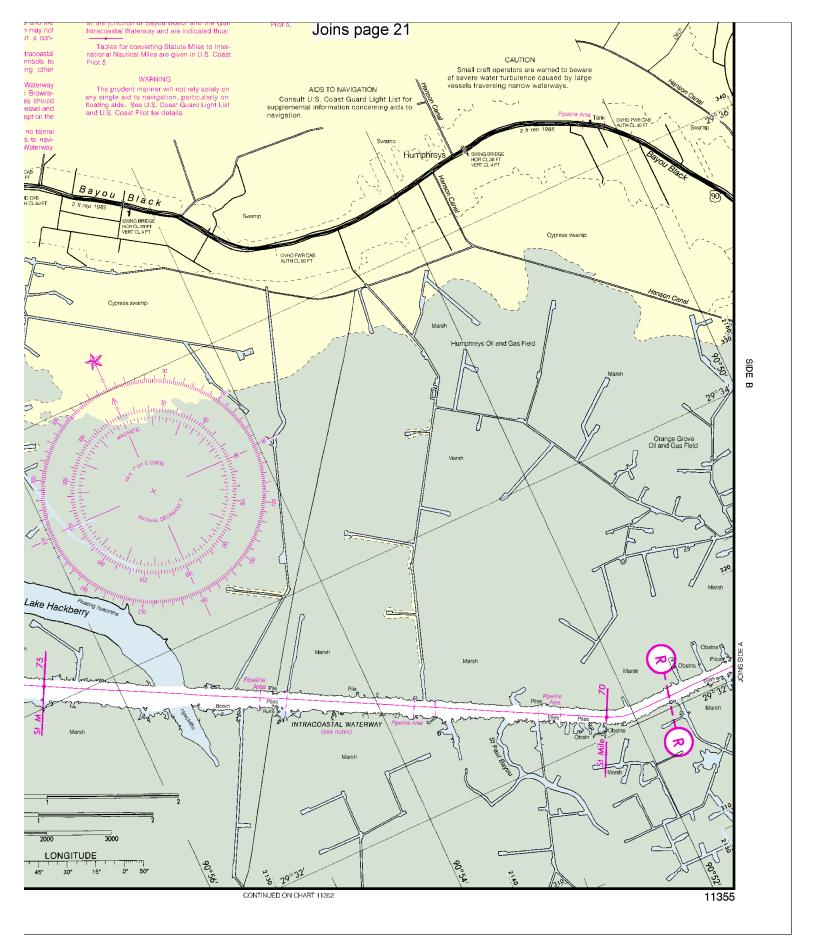












# **EMERGENCY INFORMATION**

#### VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

**Channel 9** – Communications between boats and ship-to-coast.

**Channel 13** – Navigation purposes at bridges, locks, and harbors.

## Channel 16 – Emergency, distress and safety calls

to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

**Channel 22A** – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

#### **Distress Call Procedures**

- 1. Make sure radio is on.
- 2. Select Channel 16.
- 3. Press/Hold the transmit button.
- 4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
- Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
- 6. Release transmit button.
- Wait for 10 seconds If no response Repeat MAYDAY Call.

#### HAVE ALL PERSONS PUT ON LIFE JACKETS!!

#### **Mobile Phones** – Call 911 for water rescue.

Coast Guard Group New Orleans – 504-846-6162 Coast Guard Station Grand Isle – 985-787-2136 Coast Guard Station New Orleans – 504-846-6181 LA Wildlife and Fisheries– 800-442-2511 Coast Guard Atlantic Area Cmd – 757-398-6390

<u>NOAA Weather Radio</u> – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



# NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S, including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: <a href="https://www.NauticalCharts.NOAA.gov">www.NauticalCharts.NOAA.gov</a>.

Official Print-on-Demand Nautical Charts — These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

## Official Electronic Navigational Charts (NOAA ENCs®) -

ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

## Official Raster Navigational Charts (NOAA RNCs<sup>™</sup>) –

RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at <a href="https://www.NauticalCharts.NOAA.gov">www.NauticalCharts.NOAA.gov</a>.

Official BookletCharts<sup>™</sup> – BookletCharts<sup>™</sup> are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts<sup>TM</sup> – PocketCharts<sup>TM</sup> are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot® – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at <a href="https://www.NauticalCharts.NOAA.gov">www.NauticalCharts.NOAA.gov</a>.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <a href="http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm">http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm</a>.

Internet Sites: <a href="https://www.Noa.gov">www.Noa.gov</a>, <a href="